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AMENDMENTS TO THE CLAIMS

Claim 1 (currently amended) A catheter balloon comprising a polytetrafluoroethylene film[porous material] and elastomeric material, the polytetrafluoroethylene film[porous material] being sealed to render it liquid-tight, wherein the catheter balloon has a burst pressure of at least about 5 atmospheres.

Claim 2 (original) A catheter balloon according to claim 1 wherein the catheter balloon has a burst pressure of at least about 8 atmospheres.

Claim 3 (original) A catheter balloon according to claim 1 wherein the catheter balloon has a burst pressure of at least about 10 atmospheres.

Claim 4 (original) A catheter balloon according to claim 1 wherein the catheter balloon has a burst pressure of at least about 15 atmospheres.

Claim 5 (canceled)

Claim 6 (original) A catheter balloon according to claim 1 wherein the catheter balloon is configured for stent delivery.

Claim 7 (original) A catheter balloon according to claim 1 wherein the catheter balloon is configured for graft delivery.

Claim 8 (original) A catheter balloon according to claim 1 wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction ratio of at least about 0.5.

Claim 9 (original) A catheter balloon according to claim 1 wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction ratio of at least about 0.6.

Claim 10 (original) A catheter balloon according to claim 1 wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction efficiency ratio of at least about 0.3.

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Claim 11 (original) A catheter balloon according to claim 1 wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction efficiency ratio of at least about 0.7.

Claim 12 (original) A catheter balloon according to claim 1 wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction efficiency ratio of at least about 0.9.

Claim 13 (currently amended) A catheter balloon according to claim 1 wherein the polytetrafluoroethylene film[porous material] comprises helically wrapped film.

Claim 14 (currently amended) A catheter balloon according to claim 1 wherein the elastomeric material is impregnated into of at least a portion of void spaces in the polytetrafluoroethylene film[porous material].

Claim 15 (currently amended): A catheter balloon comprising a polytetrafluoroethylene film[porous material] and elastomeric material, the polytetrafluoroethylene film[porous material] being sealed to render it liquid-tight, wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction efficiency ratio of at least about 0.3.

Claim 16 (original) A catheter balloon according to claim 15 wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction efficiency ratio of at least about 0.7.

Claim 17 (original) A catheter balloon according to claim 15 wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction efficiency ratio of at least about 0.9.

Claim 18 (previously amended):. A catheter balloon according to claim 15 wherein the catheter balloon has opposing ends, said balloon having a length measured between said opposing ends, and wherein the length varies less than about ten percent when the balloon is in a deflated state and when the balloon is inflated to a pressure of 8 atmospheres.

Claim 19 (canceled)

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Claim 20 (original) A catheter balloon according to claim 15 wherein the catheter balloon has a burst pressure of at least about 10 atmospheres.

Claim 21 (original) A catheter balloon according to claim 15 wherein the catheter balloon has a burst pressure of at least about 15 atmospheres.

Claim 22 (original) A catheter balloon according to claim 15 wherein the catheter balloon is configured for stent delivery.

Claim 23 (original) A catheter balloon according to claim 15 wherein the catheter balloon is configured for graft delivery.

Claim 24 (original) A catheter balloon according to claim 15 wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction ratio of at least about 0.5.

C3 Claim 25 (currently amended) A catheter balloon comprising a polytetrafluoroethylene film[porous material] and elastomeric material, the polytetrafluoroethylene film[porous material] being sealed to render it liquid-tight, wherein the balloon maintains a substantially circular cross section during inflation and deflation in the absence of external constraint.

Claim 26 (previously amended) A catheter balloon according to claim 25 wherein the catheter balloon has opposing ends, said balloon having a length measured between said opposing ends, and wherein the length varies less than about ten percent when the balloon is in a deflated state and when the balloon is inflated to a pressure of 8 atmospheres.

Claim 27 (canceled)

Claim 28 (original) A catheter balloon according to claim 25 wherein the catheter balloon has a burst pressure of at least about 5 atmospheres.

Claim 29 (original) A catheter balloon according to claim 25 wherein the catheter balloon has a burst pressure of at least about 8 atmospheres.

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Claim 30 (original) A catheter balloon according to claim 25 wherein the catheter balloon has a burst pressure of at least about 10 atmospheres.

Claim 31 (original) A catheter balloon according to claim 25 wherein the catheter balloon has a burst pressure of at least about 15 atmospheres.

Claim 32 (original) A catheter balloon according to claim 25 wherein the catheter balloon is configured for stent delivery.

Claim 33 (original) A catheter balloon according to claim 25 wherein the catheter balloon is configured for graft delivery.

Claim 34 (original) A catheter balloon according to claim 25 wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction ratio of at least about 0.5.

Claim 35 (original) A catheter balloon according to claim 25 wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction ratio of at least about 0.6.

Claim 36 (original) A catheter balloon according to claim 25 wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction efficiency ratio of at least about 0.3.

Claim 37 (original) A catheter balloon according to claim 25 wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction efficiency ratio of at least about 0.7.

Claim 38 (original) A catheter balloon according to claim 25 wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction efficiency ratio of at least about 0.9.

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Claim 39 (currently amended) A catheter balloon comprising a polytetrafluoroethylene film[porous material] and elastomeric material, the polytetrafluoroethylene film[porous material] being sealed to render it liquid-tight, wherein the catheter balloon has opposing ends affixed to a catheter, said balloon having a length measured between said opposing ends, and wherein the length varies less

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than about ten percent between when the balloon is in a deflated state and when the balloon is inflated to a pressure of 8 atmospheres.

Claim 40 (canceled)

Claim 41 (original) A catheter balloon according to claim 39 wherein the catheter balloon has a burst pressure of at least about 10 atmospheres.

Claim 42 (original) A catheter balloon according to claim 39 wherein the catheter balloon has a burst pressure of at least about 15 atmospheres.

Claim 43 (original) A catheter balloon according to claim 39 wherein the catheter balloon is configured for stent delivery.

Claim 44 (original) A catheter balloon according to claim 39 wherein the catheter balloon is configured for graft delivery.

Claim 45 (original) A catheter balloon according to claim 39 wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction ratio of at least about 0.5.

Claim 46 (original) A catheter balloon according to claim 39 wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction efficiency ratio of at least about 0.3.

Claims 47-55 (canceled)

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Claim 56 (currently amended) A catheter balloon comprising a polytetrafluoroethylene film[porous material] and elastomeric material, the polytetrafluoroethylene film[porous material] being sealed to render it liquid-tight, wherein the catheter balloon is configured for stent delivery.

Claim 57 (original) A catheter balloon according to claim 56 wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction ratio of at least about 0.5.

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Claim 58 (original) A catheter balloon according to claim 56 wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction efficiency ratio of at least about 0.3.

c6 Claim 59 (currently amended) A catheter balloon comprising a polytetrafluoroethylene film[porous material] and elastomeric material, the polytetrafluoroethylene film[porous material] being sealed to render it liquid-tight, wherein the catheter balloon is configured for graft delivery.

Claim 60 (original) A catheter balloon according to claim 59 wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction ratio of at least about 0.5.

Claim 61 (original) A catheter balloon according to claim 59 wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction efficiency ratio of at least about 0.3.

c7 Claim 62 (currently amended) A catheter balloon comprising a polytetrafluoroethylene film[porous material] and elastomeric material, the polytetrafluoroethylene film[porous material] being sealed to render it liquid-tight, wherein the catheter balloon following inflation to 8 atmospheres and subsequent deflation has a compaction ratio of at least about 0.5.
